



The State University
of New York

SURC

FIRST ANNUAL SUNY UNDERGRADUATE RESEARCH CONFERENCE

APRIL 10, 2015



The College at
BROCKPORT
STATE UNIVERSITY OF NEW YORK



The State University
of New York



- University Centers and Doctoral Degree Granting Institutions
- University Colleges
- Technology Colleges
- Community Colleges

* Empire State College has 35 locations throughout New York State.

SURC 2015 CONFERENCE SCHEDULE

Friday, April 10th

Welcome to SURC 2015

Registration – SERC Foyer	<i>Coffee & light refreshments served 8:30-9:30 am</i>	8:30 – Noon
DANCE Registration – Hartwell Hall Lobby	<i>for ALL Dance Students & Faculty</i>	8:30 – 9 am
Dance Master Classes – Hartwell Hall	<i>See program for details and locations</i>	9 – 10:30 am
Oral Presentation Session I	<i>See program for details and locations</i>	9:30 – 11 am
SURC Dance Performances – Hartwell Hall Dance Theater		10:45 am – Noon
<i>SUNY Graduate School and Study Abroad Fair in SERC House of Fields</i>		<i>11 am- 3 pm</i>
Poster Session I – SERC House of Fields		11:15 am – Noon
Luncheon – SERC House of Fields	<i>Welcoming Remarks –</i>	Noon – 1:45 pm
Keynote Address – SERC House of Fields	<i>Speaker - George D. Kuh</i>	



George Kuh is a renowned higher education innovator, a “towering figure”- according to *The Chronicle of Higher Education*- who “launched the field of assessment of institutional quality.” As founder of Indiana University’s (IU) Center for Postsecondary Research and the National Survey of Student Engagement (NSSE), Kuh has led a national push to enrich the undergraduate and graduate student experiences.

An adjunct research professor of education policy at the University of Illinois and Chancellor’s Professor of Higher Education Emeritus at IU, Kuh directs the National Institute for Learning Outcomes Assessment and founded the Strategic National Arts

Alumni Project. He is a prolific scholar whose recent books include *Using Evidence of Student Learning to Improve Higher Education* (2015), *Ensuring Quality and Taking High-Impact Practices to Scale* (2013), *High Impact Practices* (2008), *Piecing Together the Student Success Puzzle* (2007), and *Student Success in College: Creating Conditions That Matter* (2005, 2010). An active consultant to institutions of higher education in the United States and abroad, Kuh is past-president of the Association for the Study of Higher Education (ASHE) and serves on the Board of Regents at Luther College and the National Leadership Council for the Association of American Colleges and Universities “Liberal Education and America’s Promise” initiative.

George earned the B.A. from Luther College, M.S. from St. Cloud State University, and Ph.D. from the University of Iowa. In addition to many awards for educational leadership and innovation, Kuh is the recipient of nine honorary degrees.

Poster Session II – SERC House of Fields		2 – 2:45 pm
Post-Graduate Study & Career Workshops – Edwards Hall	<i>for ALL students</i>	3 – 4 pm
NSF and SUNY RF Grants Workshops - Edwards Hall	<i>for ALL Faculty</i>	3 – 4 pm
<i>Dessert and Coffee in Hartwell Hall Lobby & Liberal Arts Building Foyer</i>		<i>4 pm</i>
Oral Presentation Session II	<i>See program for details and locations</i>	4:15 – 5:30 pm



The State University
of New York

Nancy L. Zimpher
Chancellor

State University Plaza
Albany, New York 12246

www.suny.edu

April 10, 2015

Dear SUNY Students, Mentors, and Friends,

It is my great pleasure to welcome you to the first SUNY Undergraduate Research Conference (SURC). The conference highlights exceptional academic work by students across the disciplines and across our great SUNY system. Their accomplishments in laboratories, studios, libraries, and communities on and off campuses are testaments of their educational ambition and excellence. I also want to celebrate their mentors for ensuring that student research projects are of the highest quality.



Authentic learning, on display today at SURC, entails intellectually curious students honing academic skills through rigorous inquiry, problem solving, and communication with discerning audiences. SUNY's commitment to experiential education and applied learning is on display today at SURC.

At SUNY, we believe in the power of learning by doing. That's why we are working to ensure that every SUNY student will have access to an applied learning opportunity. Today's high-tech, global economy is fast-paced and moving forward every day, and we have to ensure that, above all else, we are preparing our students to be a part of it. This goal was put forth in the 2013 State of the University Address, and SURC demonstrates that SUNY is well on its way toward reaching that target.

My special thanks go to The College at Brockport for hosting this important event, keynote speaker George Kuh, workshop leaders, conference steering committee members, and most of all to the fine SUNY students and their mentors.

With best regards,

A handwritten signature in black ink that reads "Nancy L. Zimpher".

Nancy L. Zimpher
Chancellor

To Learn
To Search
To Serve

the Power



SURC at the SERC

MESSAGE FROM THE PRESIDENT



I'm delighted to extend a personal welcome to the inaugural SUNY Undergraduate Research Conference, hosted by The College at Brockport. Our College has had a long-standing commitment to the importance of undergraduate research, both through summer opportunities sponsored by the Brockport Foundation as well as our own Scholars Day, which we just celebrated on April 8 for the 32nd consecutive year. By celebrating the scholarly accomplishments of our students and faculty, we are reminded of the value of a multi-dimensional education extending beyond classroom walls. The efforts of these talented students — and those of their faculty mentors — open the world for students to define career paths and achieve the intellectual successes that we strive to develop in each and every SUNY student. You'll also find a diversity of research which will assist the State of New York, our citizens, their quality of life, and beyond. Please enjoy the wide range of scholarly endeavors featured this 10th day of April and join us in celebrating student success in all of its creative forms.

A handwritten signature in black ink that reads "John R. Halstead". The signature is written in a cursive style and is enclosed within a simple, hand-drawn triangular outline.

John R. Halstead, PhD

President

The College at Brockport

State University of New York



The College at
BROCKPORT
STATE UNIVERSITY OF NEW YORK

ACKNOWLEDGEMENTS

SURC 2015 Sponsors

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Special Thanks

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The College at Brockport SURC Volunteers

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Thank you to SURC 2015 Fair Representatives:

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Kaplan Test Prep

Thank you for generously raffling an "On Demand Kaplan Course" valued up to \$1899.

SURC 2015 ~ DANCE MASTER CLASSES
9 – 10:30 am

Karl Rogers, The College at Brockport: David Dorfman Repertory
Melanie Gambino, SUNY Purchase: Continuum
Vanessa VanWormer, The College at Brockport: Ballet

SURC 2015 ~ ORAL SESSION I
9:30 – 11 am

ANTHROPOLOGY, ARCHAEOLOGY

HARTWELL HALL 219

CHAIR: Ms. Natalie Heller

The Power of Revision on Lexical Cohesion in ESL Academic Writing

Mark T. Romig, SUNY Geneseo

Deaf and Disability: Is It Just A Label?

Jill Stewardson, The College at Brockport

A Comparative Osteometric Analysis of Ohio Hopewell Canid Remains

John T. Blank, Jennifer M. Amico, SUNY Geneseo

Bladelets, Bones and Socially Constructed Gender Identities: Understanding Division of Labor among Ohio Hopewell Populations Based on Sex through the Analysis of Osteological Evidence

Jenna Anderson, SUNY Geneseo

Whose Bones are These?

Raymond W. Baird, The College at Brockport

ART HISTORY

HOLMES HALL 205

CHAIR: Ms. Jenna Steinmiller

Yoko Ono: Emotions to Art

Emily R. Henrich, The College at Brockport

Van Eyck's Mystic Lamb, element in Camus' La Chute

Jacqueline R. Christensen, SUNY Geneseo

Uncovering a Feminist Spirituality: Christianity as a Visual Framework in Leonora Carrington's Iconography

Chelsea P. Butkowski, SUNY Geneseo

Resolving Vicarious Traumatization through Artistic Practice

Lana K. Slinkard, SUNY Oswego

BIOLOGICAL SCIENCES

HOLMES HALL 214

CHAIR: Mr. Ian Shannon

*The Effects of Ethanol on Courtship and Mating Preference in *Drosophila melanogaster**

Weily Lang, Wai Lam, Brittany Johnson, LaGuardia Community College

*Testing the Sensitivity of 32 Acetobacteraceae family bacteria to Bacteriophage 14g: Investigating Interactions among the Gut Microbiota of *Drosophila melanogaster**

Aaron Matthews, SUNY Oswego

Comparison of Antimicrobial Properties of Kombucha Fermented from Green Tea, Black Tea and Yerba Mate

Cameron Prophet, Alfred State College

Effects of Global System for Mobile Communication Radiation on Paramecia Tetraurelia
Samuele Weekes, Mostafa Elbery, SUNY Plattsburgh
Are You Anxious? Getting Cold Feet? Blame the Sympathetic Nervous System
Vincent Sharkey, Monroe Community College

BIOLOGICAL SCIENCES

HOLMES HALL 215

CHAIR: Mr. Noah Reger

Membrane Binding and Leakage Properties of Antimicrobial Peptide Maximin-3

Pedro E. Lebron, SUNY Purchase

Investigating Mechanisms of Cell Cycle Regulation during Germline Stem Cell Differentiation in Drosophila

Mohammed A. Nasrallah, University at Albany

Targeting the Methionine Salvage Pathway as a Metabolic Point of Leverage in Novel Therapeutic Approaches for Prostate Cancer

Irianna M. Torres, University at Buffalo

The Role of GNB4 and SULF2 in Human Oligodendrocyte Differentiation

David A. Bratton, University at Buffalo

The Effect of Adenosine Diphosphate on Platelets Induced by Shear Stress and Secondhand Smoke and its Role in Platelet Aggregation

Sarah E. Georges, Stony Brook University

Validation of Splice Altering Morpholino Knockdown of Anoctamin 1

Maxwell Denora, The College at Brockport

CHEMISTRY, CHEMICAL ENGINEERING

LIBERAL ARTS BUILDING 208

CHAIR: Dr. Hossein Haghani

Determination of the Ion Association Constant in Binary Solutions of (methanol + phosphonium ionic liquid) and (methanol + imidazolium ionic liquids)

Colby Raymond, The College at Brockport

Lead in Our Communities: A Chemical, Sociological and Public Health Analysis

Lana M. Nitti, Mohawk Valley Community College

Computational Study of Ionic Liquid Solvation

Jeffrey Ellison, The College at Brockport

A Novel Approach to Fabricating SERS Substrate: Deposition of Gold Nanoparticles on a Glass Surface via Vacuum-assisted Solvent Evaporation

Eric J. Gauchat, Buffalo State College

Optimizing Sonication and Chromatography Conditions in the Purification of LGN Protein for X-Ray Crystallography

Ayman Huzair, Ryan Elnicki, Brandy M. Sreenilayam, The College at Brockport

Citrate Content of Bone: A Potential Measure of Postmortem Interval

Charles Froome, The College at Brockport

COMMUNICATION, PUBLISHING, AND BUSINESS

LIBERAL ARTS BUILDING 206B

CHAIR: Ms. Myra Morgan

Interactive Children's Book Illustration and Design

Mackenzie R. Gillett, SUNY Oswego

The Perception of Athletes during a Negative Situation

Michael Knapp, Jake Mastasio, The College at Brockport

iPad Application for Lettering

Lorianne Weiss, Farmingdale State College

Ferguson, Missouri: The Michael Brown Story through Progressive, Conservative and Independent Lenses

Emily Burkhard, The College at Brockport

Books and Censorship in the Modern Age - To Ban or Not to Ban?

Shannon I. Mulstay, Empire State College

The Friends of Hospice Thrift Store Marketing Plan

Gillian G. Sears, Kyle Noelle Ciricillo, Cayuga Community College

COMPUTER SCIENCE, SYSTEMS, AND SECURITY

HOLMES HALL 101

CHAIR: Ms. Marilyn Laistner

Exploring Data Flow in Computer-Created Music

Max Sokolovsky, SUNY Oswego

Distributed Computing Using a Raspberry Pi 2 Cluster

Riley Bauer, The College at Brockport

Agent-Based Modeling to Analyze Micromotives vs. Macrobehaviors

Brandon Logan, SUNY Purchase

Simulating and Assessing Search and Capture Strategies for the Pokémon Game

Cortney Dodge, SUNY Geneseo

ENGLISH - LITERATURE

LIBERAL ARTS BUILDING 107

CHAIR: Ms. Christina Hedding

Defoe and Behn: an Investigation of their Misunderstood Outcasts

Gary J. Ellison, SUNY Oswego

Debased: Hemingway's Not-So-Destructive Portrayal of Alcoholism in The Sun Also Rises

Matthew Treadwell, The College at Brockport

Stein, Woolf, and Winterson Subvert Traditional Understandings of Time and Memory to Create Identity

Kelsey Radomski, SUNY Fredonia

Women's False Agency in Daniel Defoe's Roxana and Aphra Behn's The Lucky Mistake

Christine Talone, SUNY Oswego

Subaltern Autonomy and Western Dependence in Mahesh Rao's The Smoke Is Rising

James L. Cooper, SUNY Oswego

ENGLISH - LITERATURE

LIBERAL ARTS BUILDING 108

CHAIR: Ms. Monica Raminger

No Sharper Steel, No Lovelier Treasure: The Cult of the Sword throughout History

Elizabeth L. Gellis, Binghamton University

Distorting the Senses: the Traumatic Narrative of Brian Turner's Phantom Noise

Christian J. Wessels, The College at Brockport

Native Not Queer: Performance and Identity Conflict for Sherman Alexie's Native Americans

Thomas Fitzgerald McCarthy, SUNY Geneseo

From Narcissism to Empathy: Ibsen's Plays in the Digital Age

Jeffrey T. Curtin, Monroe Community College

ENVIRONMENTAL SCIENCES, STUDY, ENGINEERING**HARTWELL HALL 120****CHAIR:** Ms. Eli Polzer*The Effect of Sampling Time on Camera Trap Results*

Joseph Beck, Finger Lakes Community College

*Neophobic Behavior and Life History Traits of House Sparrows (*Passer domesticus*)*

Sara Grillo, The College at Brockport

The Touch of Nature Has Made the Whole World Kin: Interspecies Kin Selection in the Convention on International Trade in Endangered Species of Wild Fauna and Flora

Laura E. Jenkins, The College of Environmental Science & Forestry

Persistence Hunting: The Origin of Humans

Matthew Glaub, The College of Environmental Science & Forestry

"Saving Sea Turtles": Examining the Efficacy of American Conservation Efforts in Mexico

Megan F. Ewald, The College of Environmental Science & Forestry

*The Effects of Avian Scavenging on the Decomposition of *Sus scrofa**

Brianna L. Robinson, SUNY Oswego

ENVIRONMENTAL SCIENCES, STUDY, ENGINEERING**HARTWELL HALL 123****CHAIR:** Ms. Andie Graham*You are What You Eat-Use of Fatty Acid Signatures to Decipher Diet Composition*

Sage M. Hallenbeck, The College at Brockport

Comparison of Macroinvertebrate Community Traits of Riffle and Pool Habitats from Wadeable Streams in the Allegheny Forest

Amy L. Westfall, The College at Brockport

Ceramic Water Filters for the Developing World

Kathryn P. Rozwod, University at Buffalo

*The Effect of Temperature on Growth of Non-native Seaweed Species *Gracilaria vermiculophylla* in the Long Island Sound as Compared to Native *Gracilaria tikvahiae**

Leah M. Gorman, SUNY Purchase

*Population Genetics of Bowfins (*Amiidae*) across the Laurentian Great Lakes*

Madeline J. Clark, The College of Environmental Science & Forestry, SUNY

The Relationship between Local Socioeconomic Conditions and Macroinvertebrate Communities of Wadeable Streams Across the United States

Anna Palmer, SUNY Purchase

HISTORY**LIBERAL ARTS BUILDING 207****CHAIR:** Dr. Todd Goehle*Lotus Steps: Looking at Footbinding from the Perspective of Participants*

Margaret E. Luddy, SUNY Geneseo

Reification, Consciousness, and Resistance: Twentieth Century Revisionary Marxism on Global

Janna E. Nunziato, SUNY Geneseo

(Em)bodying the Frame, Enframing the Captive Body: Louis Agassiz' Daguerreotypes, the Scientific Observer and circum-Atlantic Modernity in the mid-Nineteenth Century

Nikita Rumsey, SUNY Geneseo

Behind Closed and In Public Eyes: Communism and the 1953 Iranian Coup D'état

Conner A. Wolfe, The College at Brockport

MATHEMATICS**HOLMES HALL 211****CHAIR:** Dr. Tasneem Zaihra*Pushing the Bounds of Numerical Ranges*

Rayanne Luke, SUNY Geneseo

Numerical Ranges over Finite Fields

Douglas D. Knowles, SUNY Geneseo

There's a Glitch in the Matrix!: Categorizing Numerical Ranges of Matrices

Jack A. Jenkins, SUNY Geneseo

The Golden Ladder

Weixin Wu, SUNY Purchase

Modeling Cooperation using Networks

Tom Hartvigsen, SUNY Geneseo

Utilizing LaTeX to Research Pathological Functions: The Continuous but Nowhere Differentiable

Tehmina Ashraf, Empire State College

PHYSICS, ASTRONOMY

HOLMES HALL 204

CHAIR: Dr. Eric Monier

The Geodesic Structure of Non-asymptotically Flat 2-branes

Jesse C. Chandler, SUNY Cortland

Morphology of the Large Magellanic Cloud Using Classical Cepheids

Daniel Wysocki, SUNY Oswego

Cinema and Physics: How the Discoveries in Physics Led to Breakthrough in Cinema

Julia R. D'Rozario, SUNY Oswego

Conditional Entropy Methods for Period Detection in Variable Stars

Vincent Debiase, SUNY Oswego

Metallicity Determination for RR Lyraes Observed from CSTAR Telescopes in Antarctica

Kenneth Roffo, SUNY Oswego

Point Contact Spectroscopy: An Undergraduate Investigation into Quantum Criticality

Amanda M. Landcastle, The College at Brockport

POLITICAL SCIENCE, ECONOMICS, JUSTICE, AND SOCIOLOGY

HARTWELL HALL 52

CHAIR: Mr. Daniel Micciche

Rethinking the Internet and the May 2014 Election Outcomes for Young South Africans

Rebecca A. Miller, SUNY Geneseo

Do They Try: Why Do Some Countries Try Harder than Others in Preventing Human Trafficking?

Jane Ni, University at Albany

"Selfish, Lazy, Lonely, and Spoiled:" An Exploration of Stereotypes and the Experiences of the Only Child

Diandra Vivian Emsley, SUNY Purchase

Child Marriage: A Global Concern

Mariel Rivera, The College at Brockport

Explaining the Academic Gender Gap: Comparing Undergraduate and Graduate/Faculty Beliefs about Talent Required for Success in Academic Fields

Kimberlyn Bailey, SUNY Oswego

Is There a Cultural Divide in America?

Victoria N. Diana, Aundrea Durham, Katherine Chetney, Jessica Desoto, SUNY Oswego

PSYCHOLOGY

HOLMES HALL B0001

CHAIR: Ms. Jenna Mollura

The Impact of Rereading on Metacomprehension and Comprehension of Negation

Natasha D. Snyder, The College at Brockport

Self-Control, Impulsivity, and Delay Discounting in Children

Alyssa Button, Madeline Albano, Sydney Mancuso, The College at Brockport

Pitch Perception and Encoding Pitch Contours in College Aged Individuals with Autism Spectrum Disorder

Danielle Williams, SUNY Purchase

Perception and Imitation of Vocally Expressed Emotion in Individuals with Autism Spectrum Disorder

Danielle DeMaio, SUNY Purchase

Musical Commitment Predicts Sequence-learning Abilities both with and without Sound

Devin Stack, SUNY Purchase

PSYCHOLOGY

HOLMES HALL B0002

CHAIR: Ms. Erin Bonafede

Effects of Childhood Cancer and Hospitalization on Pre-school Aged Children: Benefits of Play Therapy and Movement Therapy

Abigail N. Graham, The College at Brockport

Activities and Mindfulness

Jamie M. Tombari, The College at Brockport

Meditation and Mindfulness

Adwoa A Opoku-Nsiah, The College at Brockport

Mindfulness and Mood

Paul Alex Williams, The College at Brockport

Mindfulness: A Mediated Model

Michael Annechino, The College at Brockport

The Positive Effects of Pre-Marital Counseling on Identity

Marlisha Marcellin, Sullivan County Community College

SURC 2015 ~ DANCE PERFORMANCE SESSION

10:45 am – Noon

DANCE

HARTWELL HALL DANCE THEATER

CO-CHAIRS: Ms. Vanessa VanWormer, Ms. Stephanie Oakes, Morgan Bernat

Letters of Heroines

Justine C. Lazatin, Teresa Beckman, Danielle Hartnet, Molly Kindler, Megan Roberts, Morgan Schlossel, Alyssa Willmarth, SUNY Geneseo

Ballet No Kata

Katherine Delorme, The College at Brockport

Radiating Absence

Sarah Dodd, University at Buffalo

Sonder

Megan Roberts, Nicole Bergamo, Brynn Davie, Kristen Czerwinski, Sophia Garber, Taylor Gerner, Teagan Plimpton, SUNY Geneseo

Choreographic Exploration: Misappropriation in Hip Hop Dance

Emily K. Gerst, Chloe London, Nicole Woodcock, Nicole Grigonis, Mia Martelli, Melissa Froats, Dutch DeCarvalho, Nathaniel Diaz, The College at Brockport

Denude

Maria R. Cwiklinski, University at Buffalo

Pieces of Intention

Jordan Lloyd, The College at Brockport

Continuum and the Creative Process

Liang MacMillan Lu; Sophia Rydlizky, Alexandra Shipman, Sherah Williams, Jada Wong, Hiu Ching, Sabrina Wyckoff, Sha Wynn Zheo, SUNY Purchase

Switching Gears

Marissa Subik, Brooke Armstrong, Skyler Bell, Nicole Grigonis, Jordan Lloyd, Mia Martelli, Christina Williams, The College at Brockport

SURC 2015 ~ POSTER SESSION I

11:15 am – Noon

POSTER CO-COORDINATORS, SESSION I: Ms. Gabrielle Clark, Mr. Jay Kenyon

ANTHROPOLOGY

SERC House of Fields – Main Floor

Development and Curation of an Osteological Collection

Eric Schultz, Empire State College

ARTS AND HUMANITIES

The Lieder of Mathilde von Kralik, Newly Discovered

Sean Fahy, SUNY Potsdam

Graphic Flash: A Multimedia Collaborative Digital Project

Melissa Gottlieb, Mackenzie Gillett, Guilherme Riberio De Assis, Sarah Rose, Connor DeHaan, Ashley Bennett, SUNY Oswego

BIOLOGICAL SCIENCES

Understanding the Different Ecological Roles of Three Tilapia Species in Lake Turkana, Kenya,

Taylor Bouraad, Stony Brook University

Need for Cognition, Tolerance for Ambiguity, and Need for Closure between Majors

Zachary Longo, Kathy Tota, Nansi E. Has, SUNY Cortland

*Size Divergence of Threespine Stickleback (*Gasterosteus aculeatus*)*

Yuleisy Lanns, Suffolk County Community College

High Mobility Group B Proteins Modulate histone Methylation in Mouse Embryonic Fibroblasts

Oluwatoyosi Awotorebo, Suffolk County Community College

*Sex-based Differences in *C. elegans* Responsiveness to Aversive Stimuli*

Ronald A. Bola, Michelle C. Krzyzanowski, Jordan F. Wood, University at Buffalo

*Study of the Unknown Extracellular Polymeric Substances (EPS) contained within *Legionella pneumophila* (Lpn) Biofilms*

Casey Peterson, SUNY Cortland

*Characterization and Identification of *Isaria fumosorosea* Metabolite*

Velisha Guillaume, SUNY New Paltz

*Analysis of the *Drosophila melanogaster wnt5* Mutant's Behavior towards Carbon Dioxide and Apple Cider Vinegar*

Kendra Andrew, The College at Brockport

*The Significance of the Nuclear Gene, *SGS1*, in Mitochondrial Genome Stability in *Saccharomyces Cerevisiae**

Kathryn Wershing, The College at Brockport

A Blueprint of the Striatal Medium Spiny Neuron Population in an Animal Model of Obsessive Compulsive Disorder

Danielle Weeks, University at Albany

Associations between Oral and Systemic Health in Long-term Care Residents

Summar Amin, University at Buffalo

The Abundance and Characteristics of Aquatic Tree Hole Communities in Three German Forests

Roodline Cineus, SUNY Oswego

Protecting Open-Air Microalgal Culture Ponds from Zooplankton Contamination

Sara Lawler, SUNY Fredonia

Generating a Novel Soybean Cultivar with Resistance to Nematode Infection and High Performance in Adverse Conditions by Overexpressing Cysteine Protease Inhibitor 1

Thien D. Luu, Timothy DeMarsh, The College of Agriculture & Technology at Cobleskill, SUNY

How the Cellular Environment Influences Hybrid Duplex Conformation

Pakinee Phromsiri, Stephanie R. Gill, The College at Brockport

*Transformation of Soy (*Glycine max*) for Heightened Expression of the SIZ1 Gene*

Tim DeMarsh, Thien D. Luu, The College of Agriculture & Technology at Cobleskill, SUNY

*Towards Identifying the Antimicrobial Action of Maximin 3 from *Bombina maxima* Using GROMACS*

Thomas Lipscomb, SUNY Purchase

Effect of Histone Deacetylase Inhibition on Radiosensitivity of Primary Human Fibroblasts Following Charged Particle Irradiation

Jonathan M. Millings, Benjamin Daniels, Leonard Chavannes, Lucia Kolodiuk, Katherine Z. Salidad, Alicia M. Johnson, Deborah Keszenman, Paul F. Wilson Jr., Paula Bennett, Suffolk County Community College

Agrobacterium-mediated Soybean Transformation

Cale Ballard, The College of Agriculture & Technology at Cobleskill, SUNY

Analysis of Cardiac Ion Channels to Understand Arrhythmias Which Lead to Sudden Cardiac Death

Amanda L. Miller, Summer L. Carbone, Casey S. Clark, Carolyn M. Entelisano, Matthew J. Betzenhauser, Mohawk Valley Community College – Utica Branch

Development and Identification of Soybean Plants with an Increased Tolerance to Osmotic Stress

Emily Norton, Amanda Rhodes, The College of Agriculture & Technology at Cobleskill

Meprin Alpha Mediates CCL2 Activity in Murine Bone Marrow Cells Using a Model of Chemotherapy

Maria Sena, Faoud Ishmael, Jamestown Community College

The Effect of Neuropeptide Y on Food-Induced Reinstatement and Vocalization in Rats

Sarah J. Perrotta, University at Buffalo

The Effect of Vitamin k2 on ATP Production in CHO Cells Transfected with siRNA for UBiAD1

Tracy Scott, Tompkins-Cortland Community College

CHEMISTRY, CHEMICAL ENGINEERING

Detection and Analysis of Gasoline Residues on Household Samples by Using Gas Chromatography

Michael J. Swierczynski, Kelly Grau, Buffalo State College

Solvation Dynamics of Coumarin 153 in Binary Solvents

Stephanie Robillard, The College at Brockport

Reversible Self-Assembly of Fluorescein Amyloid Beta Peptides over Gold Colloids

Christa D. Catalfamo, SUNY Geneseo

Synthesis, Crystallographic Characterization and Computational Study of Two Polymorphs of 5,6-Dimethyl-2-(pyridin-2-yl)-1-[(pyridin-2-yl)methyl]-1Hbenzimidazole

Matthew DeStefano, SUNY Geneseo

High Performance Nanostructured Organic/Inorganic Hybrids for Functional Applications

Sharon Lin, University at Buffalo

COMMUNICATION, GRAPHIC DESIGN

The Effects of Graphic Design on Socioeconomic Status

Brooke E. LeBeau, Samantha L. Romand, University at Buffalo

EXIST: Working Collaboratively in an E-Publishing Environment

Brigid Munafò, Ashley Bennett, Connoe DeHaan, Mackenzie Gillett, Katelyn Cardone, Samuel Castaldo, Kimberly Markell, Kristy Benicase, Gina Fargnoli, SUNY Oswego

Buzz Bark: From Traditional Illustration to Interactive App

Sarah L. Rose, SUNY Oswego

COMPUTER SCIENCE, SYSTEMS, AND SECURITY

Adaptive Power Load Balancing in Cellular Networks

Timothy S. LaRock, Xiaojun Feng, Mariya Z. Zheleva, University at Albany

In Moving Color: Motion Controlled Art Program

Adam M. Doktor, Buffalo State College

Computer Simulation of Some Natural Sciences Problems in Virtual Lab

Daniel A. Sturniolo, SUNY Fredonia

Investigation of Transliteration Algorithm Operation in Real Time for Augmented Reality

Jon L. Battison, Buffalo State College

Big Data in Transit

James W. Corpening Ph.D., Buffalo State College

Malware Analysis: A Different Approach

Thomas K. Stachowski, Buffalo State College

The Students' Live Blog

Ewurabena Ashun, Buffalo State College

CONTEMPORARY HEALTH ISSUES

Getting it Up: Improving the HPV Vaccine Uptake among Male College Students

Samantha A. Glassman, SUNY Cortland

The Effects of Regular Massage Therapy on Various Physical Ailments

Paula Scheftic, Traci Maxwell, John Posson, Jonathan Cloutier, Morrisville State College

The Impact of Augmentative and Alternative Communication Use on Parent-Child Relationships

Grace Bonasera, Alexandra Shanahan, SUNY Fredonia

Anabolic Steroids: A Choice with Consequences

Maria Ekener, Monroe Community College

Factors Affecting Prenatal Care in Rural, Low-Income Neighborhoods

Maria G. Gonzalez, SUNY Potsdam

Effect of Aspartate Supplementation on Athletic Performance in Young Men

Zach LaMacchia, Brian Williams, University of Buffalo

Culturally Competent Healthcare Services: Overcoming Language Barriers in Utica, New York

Crystal Bastien, SUNY Institute of Technology at Utica – Rome

ECONOMICS

An Analysis of Preventive Healthcare through the Perspective of Behavioral Economics
Eunice A. Famodimu, SUNY Purchase

EDUCATION

How Prepared are Teacher Candidates for Technology in the Classroom?

Daniel Klein, Buffalo State College

Developing Pedagogical Content Knowledge In Preschool Physical Education Field Experience: Managing Behaviors or Teaching Skill?

Abigail Stewart, SUNY Cortland

The Effects of Curriculum Reform on New York State Public High School Teachers

Jessica L. Gallagher, SUNY New Paltz

ENVIRONMENTAL AND EARTH SCIENCES, STUDY, ENGINEERING

Invasive Species Offer Less Resources for Native Insects

Lauren Grunzweig, Buffalo State College

Abundance and Diversity of Macrofungi in Ranomafana National Park, Madagascar

Alicia Protus, The College of Environmental Science & Forestry, SUNY

Valley Glacier Response to Late Holocene Climate Change: the Role of Glacier Geometry and Forefield Characteristics in Influencing the Magnitude of Advances

Shawn P. Taylor, SUNY Cortland

*Malaclemys Terrapin Eggs as Potential Nitrogen Supply for *Ammophila breviligulata**

Madalyn Faye Forte, The College of Environmental Science & Forestry, SUNY

Water Elevation Changes in the Fox River, Green Bay, Wisconsin

Brandon S. Franks, Buffalo State College

*Predator Recognition in Captive Tadjik Markhor (*Capra falconeri heptneri*): Implications for Reintroduction*

Laura R. LaBarge, The College of Environmental Science & Forestry, SUNY

Functional Diversity of Understory Shrubs along an Elevation Gradient in the Atlantic Forest of Brazil

Dario Caminha Paiva, SUNY Oswego

Influence of Lightning Polarity and Convective Processes on Flash Flood Severity

Amanda L. Burke, The College at Brockport, SUNY

Possibility for Climate Influence on Flood Recurrence in the North Eastern United States

Grant R. Barney, The College at Brockport

Sustainable Approaches to Food Production

Kelley Mosher, Rebecca Oakes, Phillip Chan, Amanda Low, University at Buffalo

Hydrodynamics of a River Undergoing Environmental Restoration: Buffalo River, Buffalo, NY

Matthew P. Kraft, Buffalo State College

A Creek in Need: A Water Chemistry Analysis of a Stream Slated for Restoration (Line Creek, Schoharie County, NY)

Melissa A. Miller, The College of Agriculture & Technology at Cobleskill

Assessing the Efficiency of an Anaerobic Digester through Food Waste Derived Feedstocks

Jenny R. Frank, The College of Environmental Science & Forestry

The Dissolution of Tremolite Asbestos in Artificial Lysosomal Fluid

Benjamin B. Seiderman, The College at Brockport

INDUSTRIAL ENGINEERING, MECHANICAL ENGINEERING

Using Brookhaven National Laboratory's Electric Vehicle Fleet as Grid Support

Yao Aleke, Suffolk County Community College

Constructing Activity-Mobility Patterns of Students Based On UB (University at Buffalo) Card Transactions

Xiao Li, Nicholas Delgobbo, Kwangil Suh, Jingyan Yang, University at Buffalo

Static Force Analysis of a Wing Strut for the Cessna 172 Skyhawk

Kristen Egan, Katie Eberheart, Monroe Community College

Developing an Effective Route for Education in Wind Renewable Energy

Tamunotonye Jack, Juana De Las Mercedes, Farmingdale State College

Improving Production Capacity in a Facility with Workers with Differential Abilities

Daniel A. Everett, Maritime College

Using a Cooling Fin's Temperature Gradient to Detect Water Levels

Michael E. Velazquez, Matthew Baisley, Maritime College

MATHEMATICS

"When it rains, it pours," A Precipitation Investigation of Fredonia, New York

Christopher Shartrand, SUNY Fredonia

A Simple Nonlinear Economic Models of Market Price; The Case of the Cobweb

Kwan Ho Lee, SUNY Geneseo

METEOROLOGY

A Flash Flood Parameter Investigation

Jacob V. Sojda, The College at Brockport

PHYSICS

Modeling a Detection of internally reflected Cherenkov light (DIRC) Particle Detector for High-Multiplicity Collisions

Wilka T. Carvalho, Stony Brook University

Capillary Condensation Transitions and Meniscus: Parallel Planes, Nanotubes, and Wedge

Dylan J. McIntyre, Nicholas C. Jira, SUNY Oswego

Thin Film Solar Cells: Enhancing Efficiency Using Various Nanoparticles

Martin A. Dann, SUNY Oswego

Quasar Emission Line Variability from Hubble Space Telescope Archive Data

Kasey M. Hogan, The College at Brockport

Optical Micromanipulation of Birefringent Objects with Beams with Polarization Singularities

Ann E. O'Brien, SUNY New Paltz

Implementation of Stored Waveform Inverse Fourier Transform (SWIFT) at the LEBIT Facility

Daniel P. Burdette, The College at Brockport

Study of P-N Junctions and Metal to Metal Interfaces

Jeffrey Ellison, The College at Brockport

PSYCHOLOGY

Cross-Cultural Differences in Attitudes toward Altruism, Forgiveness and Gratitude

Felicia Schiefer, Gabriella B. Pietropaolo, Curtis M. Wojcik, SUNY Fredonia

Personality Differences between Physical Education and Psychology Majors at SUNY Cortland

Kathlyn M. Parrish, Catherine P. Miller, SUNY Cortland

Effects of the Bridges to Baccalaureate Program on Student Success

Sarah J. Hohmann, SUNY Purchase

- Reproductive Control by Past Sexual Partners and Young Women's Sexual Health Outcomes*
Brittany L. Beach, SUNY Geneseo
- Identification of Possible and Impossible Depicted Objects in Young Children*
Julie A. Planke, SUNY New Paltz
- Race of Observer May Mediate Verbal Overshadowing Effects*
Cassandra C. Kolock, The College at Brockport
- Attachment Styles and Social Media Use*
Christina Marquez, SUNY Purchase
- The Role of Speech Experience on Cue Trading in Parakeets*
Daniel L. E. Carter, Alyssa Tronolone, Kanwal Asif, Ann Cheruvil, University at Buffalo
- Concept Formation in Young Children: Categorization of Complex, Asymmetric and Impossible Figures*
Shay O'Leary, SUNY New Paltz
- Leading the Way: Transfer Students Connect to Purchase College by Taking Action*
Paul J. Vespo, Jr., Sullybeth Rivera, SUNY Purchase
- Relations between Age and Internal Locus of Control, Academic Self-Efficacy, and Effective Study Habits in College Students*
Nichole A. Whiteford, SUNY Fredonia
- Within-Compound Associations in Cue Competition and Retrospective Reevaluation*
Cameo Perry, Katherine Hawes, The College at Brockport
- Altering the Commuter Students College Experience through Mentoring*
Alexa LaMarca, SUNY Purchase
- Examining Neurophysiological Responses to Attachment-Related Stimuli in Grieving Individuals*
Jasmine Fay, SUNY Purchase
- Does Perceived Attractiveness Depend on Who Else You Recently Saw?*
Scott Niedopytalski, SUNY Purchase
- The Effect of Race on Mentees' Experience of Mentoring*
Nedinia Lopez, SUNY Purchase
- Assessing Attentional Biases in Bereaved Individuals Using the Dot-Probe Paradigm*
Melissa C. Siller, SUNY Purchase

CRIMINAL JUSTICE, SOCIOLOGY, SOCIAL WORK, WOMEN AND GENDER STUDIES

- How has DNA Identification and Forensic Science Changed Criminal Investigations over Time?*
Jessica James, The College at Brockport
- Racial Microaggressions: How They Impact On College Students' Perceptions of the Campus Climate*
Juliana H. Wintrob, SUNY New Paltz
- Assessing Attitudes and Perceptions of Health Care and Prescription Drugs*
Sarah Hussain, University at Buffalo
- Community Mobilization of a Small Town during the AIDS Epidemic*
Leah Ferentinos, Binghamton University

SURC 2015 ~ POSTER SESSION II
2 – 2:45 pm

POSTER CO-COORDINATORS, SESSION II: Ms. Jessica Smith, Mr. Daniel Reichert

ARTS AND HUMANITIES

SERC House of Fields – Main

Floor

How Equine Assisted Therapy Can Improve the Quality of Life for Individuals Diagnosed with Autism, Ages 2-18

Haley Haggerty, The College at Brockport

Competing Identities in Federico García Lorca's Spain

Blake Cooper, University at Buffalo

George Grenville

Caleb Follmer, The College at Brockport

Qinghai Province and the Question of Chinese Rural Women's Land Ownership Rights

Daniel P. Loebell, University at Buffalo

Chidera's Personal Art Collection

Chidera V. Joseph, Onondaga Community College

BIOLOGICAL SCIENCES

The Role of Dystroglycan in Central Nervous System Myelination

Beverly Goldsmith, Suffolk County Community College

Lower Urinary Tract Symptoms Associated with Parkinson's Disease

Arezo Aziz, Suffolk County Community College

Modulation of Progesterone Receptor Activity Treated with Conjugated Estrogen and Bazedoxifene

Eunna Huh, SUNY Fredonia

Escherichia coli as a detection and killing system against pathogenic microbes and implications towards antibiotic therapy

Maryam Ige, Janki Patel, Helen Liu, Stony Brook University

Discovery of Novel Virus Sequences in a Flea Transcriptome

Garrett R. Evans, University at Buffalo

Antioxidants Boost Male Fertility: The Role of Reactive Oxygen Species (ROS) in Modulating Fertility and Sperm Viability in Drosophila melanogaster

Min Kyung Shin, Weily Lang, Jon Rodriguez, LaGuardia Community College

Dysregulation of Iron Metabolism in X-Adrenoleukodystrophy

Lauren Carnevale, Bradley A Blansky, University at Buffalo

The Role of the Nuclear Gene RAD1 in the Stability of the Mitochondrial Genome in Saccharomyces cerevisiae

Amber Altrieth, The College at Brockport

How Osmolytes Affect the Stability of GNRA Hairpins

Kaethe N. Leonard, The College at Brockport

Antimicrobial Effects of Essential Oils on Staphylococcus aureus

MacKenzie Bryant, Katelyn Andera, Alfred State College

The Influence of Osmolytes on the Stability of UNCG Hairpins

Michelle Whittum, The College at Brockport

Chemical Production of Kopi Luwak

Sophie I. Rohcelle, Hanyue Tang, Hao Dong, Xin Zhou, Jiayu Chen, Honglin Ouyang, SUNY Cobleskill

Inducing RNAi by feeding

Jinming Guan, Yunru Jiang, Siyuan Yang, SUNY Cobleskill

The Role of the RCK/p54 Nuclear Localization Signals on Hepatitis C Virus Infection

Samantha L. Kahn, University at Albany

Isolation of Magnetotactic Bacteria from a Graphite Mine in Upstate New York

Jeremy G. Monroe, Adirondack Community College

SEM Analysis of Turtle Embryogenesis

Karina Cruz, SUNY Oswego

A Survey of Mosquito Populations for Evidence of Lateral Gene Transfer

Andrew Becker, Jamestown Community College

Developing an Essential Oil-Based Antibiotic: A Novel Solution to the Treatment of Mastitis in Organic Dairy Cows

Emberstar Wakefield, SUNY Potsdam

Expression of the Inhibitory Receptor Subunit GABAA α 2 in Neurons and Glia of Zebrafish Embryos

Jose L. Vazquez, Katelyn M. Andera, MacKenzie M. Bryant, Derek J. Fuerch, Brianna D. Kelly, Victoria C. Marte, Ilsa S. Miller, Kayla M. Murray, Caitlin M. Ryan, Daniel R. Turkewitz, Kayla M. Washington, Alfred State College

The Effect of Limonene on the Biodegradation of Phenanthrene and Polystyrene by Pseudomonas putida and aeruginosa

Richard Hilliard, Tompkins-Cortland Community College

Expression of WHAsi from the Non-coding Strand of the Woodchuck Hepatitis Virus

Chelsea Maceda, Vladimir Leshkevich, Tompkins-Cortland Community College

Nitrous Oxide Detection in Dental Operatories

Nazia Hasan, Stephen Schneider, Gaurang Dimri, University at Buffalo

The Role of the Nuclear Genes KU70 and KU80 in the Stability of the Mitochondrial Genome in Saccharomyces cerevisiae

Amber Blidy, The College at Brockport

Transmission of Streptococcus equi by Fomites among Stabled Horses

Shana R. Vitouski, Adirondack Community College

Analysis of Borrelia in Lipotena cervi (Deer Keds) as a Model of Infection in the White Tailed Deer Population of New York State

Zachary Jackson, Chelea Cotter, Jamestown Community College

Determination of Hydraulic Resistance of Endovascular Stents

Asmah Shafie, Nalini Gadkary, Nikita Kumar, Erin Giangreco, University at Buffalo

CHEMISTRY, CHEMICAL ENGINEERING

Solubility of Mineral Salts in Binary Solvent Systems of Nonionic Surfactants and Water

Peter McGarvey, The College at Brockport

Synthesis of Cyclopropyl Inhibitors of Invertebrate Sterol Metabolism

Danielle R. Berry, The College of Environmental Science & Forestry

The Impact of Electron Beam Pre-treatment on the Fermentation of Wood-based Sugars

Charlene E. Grabowski, The College of Environmental Science & Forestry, SUNY

Synthesis and Photophysical Investigations of Polynuclear Rhenium (I) Compounds Containing Bridging Imine Donor

Patricia N. Johnson, University at Buffalo

Modeling of Group 10-based Metallo-Organic Potential Catalysts, Using DFT

Matthew C. Ellis, SUNY Cortland

COMMUNICATION, GRAPHIC DESIGN

An Examination of the Female Gender Role in Video Games and Related Media
Mohamed Sadek, SUNY Fredonia

COMPUTER SCIENCE, SYSTEMS, AND SECURITY

Unmanned Surface Vehicles for Freighters

Thiru Vikram Suresh, Daniel M. Hall, Ajit Bhat, University at Buffalo

Shapeshifter of Py

Steven D. Maciejewski, Buffalo State College

Type-O's

Andrew J. Wagner, Buffalo State College

Tap-A-Mole

David J. Dulski, Buffalo State College

Securing Communication within a Network by Leveraging Internet Protocol Security Tunnels

Dilan Samarasinghe, SUNY Albany

The Zombie Game with a Twist

Rafi Safwan, University at Buffalo

DC Comic Design in PyGame

Antoine Darnell Williams, Buffalo State College

CONTEMPORARY HEALTH ISSUES

Changes in Adult Blood Pressure Associated with Modernization on Islands of Ambae, Aneityum, and Efate in the Republic of Vanuatu: 2007-2011

Giavana M. Buffa, Binghamton University

Does Experience with Caregiving, Informal Helping, and Family Health History Predict Who Volunteers in Healthcare?

Theresa Yera, University at Buffalo

Knowledge, Attitudes and Beliefs among School-Aged Children Regarding School Food

Hayley M. Davis, SUNY Potsdam

Relationship between Estimations and Actual Physical Activity in College Students

Margaret T. Wall, SUNY Potsdam

Dose Response Effect of Caffeine on Appetite Sensations and Mood

Faryal Sahibzada, Leah Panek, Erin O'Brien, Edison Soon, University at Buffalo

ENVIRONMENTAL AND EARTH SCIENCES, STUDY, ENGINEERING

SUNY-ESF Engineering for a Sustainable Society: Changing the World One Community at a Time

Benjamin S. Taylor, The College of Environmental Science & Forestry, SUNY

A Case Study of the Long Island Pine Barrens Pertaining to Groundwater, Groundwater Contamination and the Benefits of Preservation in Suffolk County, New York

John F. Flood Jr., The College of Environmental Science & Forestry

Pleistocene-Holocene Trace Fossils in Lacustrine Glacial Lake Strata, Genesee River Valley, New York

William Barnes, Marley Bladis, Matthew Dibiase, Kendall Fitzgerald, Anton Gruning, Davita James, Ryan Kalish, Amara Kattrein, Anne Kelly, Matthew Nigro, Abigail Smith, Brennan Voorheis, SUNY Genesee

Chemical Stratification and Mercury Distribution of Meromictic Glacial Lake

Asante L. Holder, The College of Environmental Science & Forestry

Statewide Department of Transportation Response to Climate Change Policies

Jennifer R. Perry, SUNY Purchase

Centimeter- to Meter-Scale Structural and Petrographic Variations in a 3-D Exposure in the Migmatite Granite Complex, Southern Maine

Brandon D. Luther, Buffalo State College

Paleotemperature of the Redwater Shale Member of the Sundance Formation Based on Oxygen Isotopes

Owen Cowling, The College at Brockport

*Determining the Presence of Sexual Dimorphism in the Species *Pseudoboa nigra**

Jamal Omar Lavine, Cleane Medeiros, SUNY Oswego

Development of a Soil Phosphorus Rapid Field Analysis Method and Application to Archaeological Sites

Elizabeth M. Kreppel, The College at Brockport

GIS Modeling of Aquaculture Site in Long Island Sound for Nutrient Bio-extraction

Daniel J. Koval, SUNY Purchase

Swallowwort: Analyzing the Effects of a Twining Invasive Forb in Two Monroe County Parks

Scott Ward, The College at Brockport

Geoarchaeological Investigations in WNY Using Ground Penetrating Radar

Trevor W. Jennings, Buffalo State College

Bioethics Questions Raised by Transgenic Experimentation and Science Fiction Literature

Melinda P. Murcin, Jennifer Smith, Genesee Community College

Monitoring the Planned Restoration of Streambeds Following Damage from Hurricane Irene and Tropical Storm Lee

Daniel C. Frank, Peter Nichols, Edward J. Stander, The College of Agriculture & Technology at Cobleskill

Faunal Indicators of Hydrologic Change in Restored Wetlands Related to Climate Change

Jenn L. Curry, The College at Brockport

EXERCISE SCIENCE

The Influence of Carbohydrate Plus Protein Supplementation on Markers of Exercise Induced Muscle Damage

Adam Szczupzkowski, Michael Gallivan, The College at Brockport

The Influence of Carbohydrate vs. Carbohydrate plus Protein Supplementation on Muscle Force Production after Exercise Induced Muscle Damage

Michael Gallivan, Adam Szczupzkowski, The College at Brockport

INDUSTRIAL ENGINEERING

A Survey of Game-theoretic Models in Natural Disaster and Terrorism Research

Laura C. Devine, University at Buffalo

MECHANICAL ENGINEERING

Morphing Wing Aircraft Using Piezoelectric Actuators

Walker T. Gosrich, Javier C. Yu, Daniel A. Buckmaster, Alberto Padovan, University at Buffalo

Investigation into the Effectiveness of a Solar-Thermal Clothes Dryer with Exhaust Heat Recovery

Brian C. Mothon, Zachary A. Hale, Alfred State College

Gait Lab Validation of Direct Force Measurement in a Transfemoral Prosthesis

DeWayne L. Garner Jr., Onondaga Community College

Membrane Heat Pump for Combined Sensible and Latent Cooling

Josh Kerr, Zack Pettenatti, Tyler Whitesel, James Daum, Alfred State College

Design To Reduce Corrosion of A Marine Winch Brake

Nathaniel Mucke, Bruce O'Connor, Phil Velazquez, Maritime College

PHYSICS

Growth and Optical Properties of YFe₂O₄ Thin Films

Joshua P. Hinz, Buffalo State College

Potential Energy Calculations for Water Adsorption on Poly (methyl methacrylate)

Mateusz J. Zuba SUNY Oswego

Using Numerical Methods to Simulate Newtonian Mechanics in Video Games

Timothy J. Dougherty, SUNY Oswego

Quantifying Forces on Strongly Absorbing Materials Rotating in Optical Traps

Ryan Kropas, Emily Sobel, SUNY New Paltz

PSYCHOLOGY

Hijab, Religiosity, and Mental Health in Muslim Women in the United States

Qurat-ul-ain Gulamhussein, Stony Brook University

Adolescent Rats Develop Habitual Responding More Slowly Than Do Adults

Michael D. Fager, Binghamton University

Working Memory in Typically Developing Adolescents

Hayley Payne, Buffalo State College

Can CBA/CAJ Mice Discriminate Among Renditions of Ultrasonic Vocalizations within a Defined Category?

Amanda Russo, University at Buffalo

Romantic Relationships and Commitment

Lia A. Monteleone, SUNY Purchase

Responses to Violence Against Women Awareness Posters: Are Graphic Images Disempowering?

Valerie R. Marchesi, SUNY Geneseo

Anxiety and Self-Reliance on Substance Use and Treatment Seeking Attitudes

Jamie S. Glass, SUNY Purchase

The Impact of Self-Handicapping in Strategic Board Games upon New Player's Experiences

Laura Kopczynski, Emily Smith, SUNY New Paltz

Experience Performing Actions and Object Perception: Are Gun Experts or Novices More Likely to See a Gun When Holding One?

Kasey L. Bury, SUNY Purchase

Self-Monitoring and the Initiation of Long and Short-term Romantic Relationships

Maria Keller, The College at Brockport

The Lying Game: The Role of Acting Experience in Lie Detection

Kathleen E. Dengler, SUNY Purchase

Pay It Forward

Tomasilienne T. Lewis-Jones, SUNY Purchase

Mentoring Provides Effective Support for Freshmen College Students

Erica V. Sheridan, SUNY Purchase

The Function of Neural Synchrony between Speakers and Listeners during Language Comprehension

Stanley Beauvoir, SUNY Purchase

The Role of GAD-65 in Incubation of Fear Memories

Peter R. Zambetti, Natalie Odynocki, University at Albany

Can Music be used to Reduce Racial Bias?

Ainigriv Morrison, SUNY Purchase

SCHOOL AND COLLEGE EDUCATION

Former International Students at SUNY Fredonia

Minju Kim, SUNY Fredonia

The Interplay of Science Education and Cultural Context

Antara Majumar, Sushmita Gelda, University at Buffalo

SOCIOLOGY, SOCIAL WORK

The Efficiency of Sexual Assault Services Globally

Sarah M. Johnson, The College at Brockport

Victim-Blaming Across Cultures

Hannah Sonner, The College at Brockport

The Umbrella Movement in Hong Kong: The Protestors' Demands for Democracy

Juliana H. Wintrob, SUNY New Paltz

Gender Differences in the Use and Abuse of Weight-Loss Substances

Juweria Dahir, University at Buffalo

Training for the Long Term: An Education with Child Welfare Specialization or On the Job Training?

Kelly L. Forstbauer, Kathryn N. Oakes,
Daniel G. Galusha, Antonie Regulier, SUNY Fredonia

**SURC 2015 ~ STUDENT AND FACULTY WORKSHOPS
3 – 4 pm****SUCCESSFUL TRANSITION FROM A 2-YEAR TO A 4-YEAR INSTITUTION EDWARDS 105**

- Erin Rickman, Transfer-Year Experience Coordinator, The College at Brockport
- Rebecca Mack, Transfer Counselor, Monroe Community College

HOW TO IDENTIFY AND APPLY TO THE “RIGHT” GRADUATE SCHOOL EDWARDS 104

- Nancy Goroff, Associate Provost and Associate Dean of the Graduate School, Stony Brook University
- James Spiller, Dean of The Graduate School, The College at Brockport

PROFESSIONAL TIPS FOR CAREER SUCCESS EDWARDS 100

- Jill Wesley, The College at Brockport
- Tibor Dobri, Precision Optical Transceivers
- Randall Filighera, Geico
- Yaihara Fortis-Santiago, New York Academy of Sciences
- Bonnie Turner, Trillium Health

NATIONAL SCIENCE FOUNDATION’S GRADUATE RESEARCH FELLOWSHIP PROGRAM EDWARDS 103

- Joerg Schlatterer, National Science Foundation

RESEARCH GRANTS AND SUNY RESEARCH FOUNDATION NETWORKS OF EXCELLENCE EDWARDS 104

- Kimberly Eck, Paul Hirsch, Richard Burke, and Angela Wright, SUNY Research Foundation

SURC 2015 ~ ORAL SESSION II
4:15 – 5:30 pm

ART, ARCHITECTURE, AND LIBERAL STUDIES

HARTWELL HALL 127

CHAIR: Ms. Colleen Culley

“Surviving Darwin.” A Multi-Method Darwinian Criticism of Destiny’s Child’s “Survivor”

Blaze Javier Mandela, Fashion Institute of Technology

Entangled Durations: Gordon Matta-Clark’s Bingo

Alexandra Feim, Binghamton University

Healing Through Self-Expression: “Dangerous”

Cecelia Price, SUNY Fredonia

A Vision of Sustainability and Growth in Savona, NY

Brittany Varengo, Katie Dussing, Nicholas Galatioto, Doug Douzant, Josh Greenaker,
Nicholas Peraino, Alfred State College

The Global City: Culture in Latin at Spaces as Resistance against Gentrification

Jesus R. Cepin, Lenny Herrera, Binghamton University

BIOLOGICAL SCIENCES

HARTWELL HALL 122

CHAIR: Mr. Noah Reger

Characterization of Ginkgolide B as an Antagonist of Alpha 3 Glycine Receptors

Sampurna Chakrabarti, University at Buffalo

Analyzing mRNA Secondary Structure Using SHAPE Chemistry in Search of Internal Ribosomal Entry Site

Allison H. Martin, SUNY Fredonia

Probing Structure/Function Relationships in the gurken 5’ UTR

Phillip A. Frankino, Allison H. Martin, SUNY Fredonia

Development of Hypocalciuria and Hyperphosphaturia during Early Stages of Magnesium Deprivation in Mice

Jacob MacWilliams, Nicholas Desain, Justin Leach, The College at Brockport

Expression of Anoctamin 1 in Adult Zebrafish

Clayton Brady, The College at Brockport

BIOLOGICAL SCIENCES

HARTWELL HALL 123

CHAIR: Dr. Ian Shannon

Analyzing Volatile Organic Compounds (VOCs) in Drinking Water in Oswego City

Hilda Posada, SUNY Oswego

Effects of Ethanol on Brain Injury: the Role of Microglial Migration

Sushobhna Batra, University at Buffalo

Exploring the Connection between Sequence and Coordinated Gene Activity for Adjacent Promoter Pairs

Ameen M. Salem, University at Buffalo

European Flight Restrictions May Inhibit International Propagation of Ebola

Nicholas A. Yager, Matthew D. Taylor, SUNY Geneseo

Structure Activity Relationship Studies of Small Molecules Directed against the T-box Specifier Loop

Spencer F. Weintraub, Adirondack Community College

BUSINESS**LIBERAL ARTS BUILDING 108****CHAIR:** Dr. Priyamradha Rangan*Regional Economic Integration: The EU Case*

Yazid Bahloul, SUNY Empire State College

Is Your Smartphone Destroying the Planet?

Kristofer Tipton, SUNY Empire State College

Oil Prices and Stock Market Performance: A Five Country Comparative Analysis

David Sieber, The College at Brockport

CHEMISTRY, CHEMICAL ENGINEERING**HARTWELL HALL 125****CHAIR:** Dr. Markus Hoffmann*Novel Variable Modifications to Polyketide Synthase Pathway and Screen Process*

Max Simon, University at Buffalo

Cellulose Nanocrystal (CNC) Cationic Derivatives Induce NLRP3 Inflammasome-dependent IL-1 β Secretion Associated with Mitochondrial ROS Production

Erinolaoluwa F. Araoye, Dejhy S. Pyram, SUNY Plattsburgh

Monitoring Volatile Organic Compounds Removal by Indoor Plants

Timothy T. Jones, SUNY Oswego

Biological Upgrading of Hemicellulose Derived Xylose

Zach H. Spangler, The College of Environmental Science & Forestry, SUNY

Differentiation of Human, Animal and Synthetic Hair by ATR FTIR Spectroscopy

Jeremy Manheim, University at Albany

COMMUNICATION**LIBERAL ARTS BUILDING 104 A/B****CHAIR:** Mr. Ethan Gormley*Geneseo Photography Collection*

Shari L. Iannucci, SUNY Geneseo

Deceptions Online: From Facebook to Online Dating

Ziv Noam, The College at Brockport

Graphic Flash: A Collaboration of Writing, Arts and Media

Ethan S. Gormley, Cassidy Carroll, Guilherme Assis, Crystal Flowers, Tara Fox, Imani Gary,

Melissa Gottlieb, Calvin Nemec, Daniel Stalter, SUNY Oswego

COMPUTER SCIENCE, SYSTEMS, AND SECURITY**HARTWELL HALL 221****CHAIR:** Mr. Tony Morse*Modeling Attacks and Defenses of Operating Systems in Driverless Cars using Game Theory*

Kyoung Eun Park, University at Buffalo

Using Internet Protocol Security to Create Tunnels to Communicate Securely on a Network

Jenna D. Donvito, Zachary J. Burns, University at Albany

Implementing IPsec to Establish Secure Tunnels and Communications

Holden Shapira, University at Albany

A Repository of Cloud Services for Small and Micro Enterprises

Matthew Panebianco, The College at Brockport

CONTEMPORARY HEALTH ISSUES, EXERCISE SCIENCE**HARTWELL HALL 120****CHAIR:** Ms. Gina Stephan*The Impact of Social and Digital Media on Stress*

Yolanda Mabry, Empire State College, SUNY

Case Study of BA1: Prescribing Playlists for Pain

Gabrielle Bouissou, SUNY New Paltz

Fuel utilization of Supported Treadmill Running

Adam C. Lowe, SUNY Cortland

Physical Activity Participation Patterns among Latinos in the Northeast

Karen S. Martinez, SUNY Cortland

ENGLISH - CREATIVE WRITING

LIBERAL ARTS BUILDING 107

CHAIR: Dr. James Whorton

"What you want from me!?"- Addressing my food for thought

Joseph Wreh Jr., University at Buffalo

"Shelter: Caught in the Blast"

Ryan Sheperd, The College at Brockport

The American Language: Transitional Voices in the Craft of Poetry

Christian Wessels, The College at Brockport

Gravity and Other Minor Obstructions

Jacob Trask, The College at Brockport

ENGLISH - LITERATURE

LIBERAL ARTS BUILDING 206A

CHAIR: Ms. Shannon Pfeiffer

Dostoevsky's Crime and Punishment and the Problem of Evil

Melody Beth Tomlinson, The College at Old Westbury

Blood Memory: An Intersubjective Look At Native American Children's Generational Shame through the text of Sherman Alexie's Absolutely True Diary of a Part-Time Indian

Hannah Rankin, Monroe Community College

How We Were Never Autonomous: Reproduction, Disability, and Interdependence in Lilith's Brood

Sean B. Neill, SUNY Geneseo

A Child's Experience: The Nature of Trauma and the Role of Literature in Promoting Youth's Understanding of Global Progress through Debra Ellis' The Breadwinner

Esther G. Elliott, Monroe Community College

What Is A Choice: Life Lessons Learned From Moby Dick and The Scarlet Letter

Danhui Dong, University at Buffalo

ENVIRONMENTAL SCIENCES, STUDY, ENGINEERING

HARTWELL HALL 214

CHAIR: Mr. David Krebs

Fatty Acid Signatures of Lake Michigan Prey

Matt H. Futia, The College at Brockport

Simulations of Lake-effect Storms during the Ontario Winter Lake-effect Systems Project

Dillon R. Ulrich, Andrew R. JANISZESKI, SUNY Oswego

Lake-effect Lightning during the Ontario Winter Lake-effect Systems (OWLeS) Project

Tyler Kranz, SUNY Oswego

Environmental Awareness Workshop: An Introduction to Green Initiatives at SUNY Brockport

Sarah A. Dobie, College at Brockport

Effectiveness of Muslin Fabric Filtration for Drinking Water Treatment in Developing Countries

Robert S. Swick, University at Buffalo

ENVIRONMENTAL SCIENCES, STUDY, ENGINEERING

HARTWELL HALL 215

CHAIR: Mr. Jeremy Kraus

Is the Southern Tier Region of New York on the Verge of a Major Increase in Lyme disease?

Matthew T. McAuliffe, Binghamton University

Measuring Ixodes scapularis and Borrelia burgdorferi Abundance in Oswego County, NY

Katherine Hilburger, Zuzi Salais, SUNY Oswego

Antibiotic Resistance Patterns and Parasite Prevalence in Captive versus Free Roaming Anseriformes in a Zoo Setting

Miru Watanabe, Saddam Alrobaie, Fatima Zara, Omar Pimentel, Monroe Community College

SUNY Oneonta Campus Invasive Plant Survey, Removal, and Replacement Plan

Sara June L. Bouillon, SUNY Oneonta

HISTORY

LIBERAL ARTS BUILDING 208

CHAIR: Ms. Sarah Kysor

"Born in Slavery": Tracking the Movement of Former Slaves in the Post-Civil War Era

Joseph Gardella, University at Buffalo

Benjamin Franklin: A Glimpse of Imperfection

Michael W. Scholjan, The College at Brockport

A Breath of Freedom: The Role of the Freedom Schools in Politicizing Mississippi's Black Youths

Todd W. Christensen, SUNY Geneseo

The Attica Prison Riot's Effect on Corrections Officers, Staffing, and the New York State Prison System

Claire E. Burgon, University at Albany

Lost Dunkirk

Russell Wallace, SUNY Fredonia

POLITICAL SCIENCE, ECONOMICS, JUSTICE, AND SOCIOLOGY

LIBERAL ARTS BUILDING 106B

CHAIR: Mr. Andrew Russo

The Effects of "Strain" on Student Loan Debtors

Evan Ling, The College at Brockport

The Relation between Political Identity and Architecture in Wroclaw and Budapest

Felicia L. Heideman, The College at Brockport

Radical Populism: A New Pragmatic Revolt in Politics

Daniel Smith, Stony Brook University

A Study on the Relationship between Social Spending and Human Development

Sean Etter, SUNY Geneseo

The U.S. Economic Growth Factors by Using Regression Analysis

Songyi Paik, SUNY Geneseo

PSYCHOLOGY

HARTWELL HALL 217

CHAIR: Ms. Gabrielle Clark

The Effect of Heroin Self-Administration on Perineuronal Nets using an Animal Conflict Model of Abstinence and Relapse

Amanda Shaw, SUNY Cortland

Self-Control and Impulsiveness in Adult Humans: Different Reinforcers

Kendra L. Andrew, Michael Bennett, Paul Drake, The College at Brockport

The Human Microbiome and Its Influence upon Human Health

Barbara J. Bennett, Broome Community College

Slow Learning about Inhibitors in Human Contingency Learning

Ryan Hutchings, The College at Brockport

PSYCHOLOGY**HARTWELL HALL 218****CHAIR:** Ms. Lauren Mutignani*Examining the Relationship between Family Routines during Adolescence and Young Adult Health Behaviors*

Kaitlyn Koban, The College at Brockport

Effects of Labeling

Katherine Quinn, The College at Brockport

Investigation of the Psychometric Properties of the Informant-Report Form of the Personality Inventory for DSM-5

Shontay Barnes, University at Buffalo

Coping

Jessica L. Carson, SUNY Fredonia

SCHOOL AND COLLEGE EDUCATION**HARTWELL HALL 219****CHAIR:** Mr. Jay Kenyon*Overrepresentation of Culturally and Linguistically Diverse Students in Special Education*

Hannah Arlington, The College at Brockport

Utilizing the ePortfolio to Help Create the Next Stepping Stone in an Undergraduate Student's Career

Kyle L. Brubaker, SUNY Polytechnic Institute

Teaching Writing for Students with Learning Disabilities in an Inclusive Classroom Setting: A Curriculum Development Project

Ashley M. Golley, The College at Brockport

Student's Engagement with Assignment Readings: While in Binghamton University's 4-Week Bridge Program

Elijah Simmons, Binghamton University

SPORTS MANAGEMENT, PUBLIC RELATIONS**HARTWELL HALL 52****CHAIR:** Mr. Kyle Dacey*Sport Consumer Motivation in Intercollegiate Athletics*

Allison Einhouse, Joseph Ortiz, Jeremiah Deline, The College at Brockport

Corruption in NCAA Basketball: Evidence for Bias in Seeding the NCAA Men's Basketball Tournament

Tyler C. Ross, Ishmael A. Pierre, The College at Brockport

The Effects of Color and Mascot Choices on Consumer Preference, Fan Association and Societal Acceptance

Victoria Durso, Louis Mastellone, The College at Brockport

The Under Representation of Women Sports in the Media: Society Compared with The College at Brockport

Gabrielle M. Harrington, Kristen A. Lansburg, The College at Brockport

Communication Competency: Coaches and the Media

Kaylee E. May, SUNY Oswego

THEATRE ARTS, MUSIC**LIBERAL ARTS BUILDING 102****CHAIR:** Dr. Davida Bloom*Echoes of Emily*

Caeli Faisst, SUNY Fredonia

Theatre during the English Restoration

Robert A. Miller, The College at Brockport

Tenor Passaggio in the Repertoire of the American Musical Theatre

Robert C. Sherman, Buffalo State College

Bridging Theatre, School, Business, and Literacy: Discovering Creativity through Theatre Exercises

Jaime M. Arena, SUNY Geneseo

WOMEN AND GENDER STUDIES, CREATIVE STUDIES

LIBERAL ARTS BUILDING 106A

CHAIR: Dr. Barbara LeSavoy

Title IX Awareness of Student Populations on the College at Brockport Campus

Taryn Mogavero, The College at Brockport

Hey! Take a Look in the Mirror: The Magnitude of Intrapersonal Skills

Naomi Skarupinski, Buffalo State College

The Realities and Unrealities of Borderline Personality Disorder

Jessica A. Heppler, SUNY Geneseo

Revolution Resolution

Ronan Cichelli, Dean L. Bavisotto, Graham Caulfield, SUNY Fredonia

Adiposity and Anarchism: Exposing and Examining Fat Oppression in a Capitalist Society

Sarah Mae Richens, The College at Brockport

The (de)Evolution of the Disney Princesses

Courtney Gazda, The College at Brockport

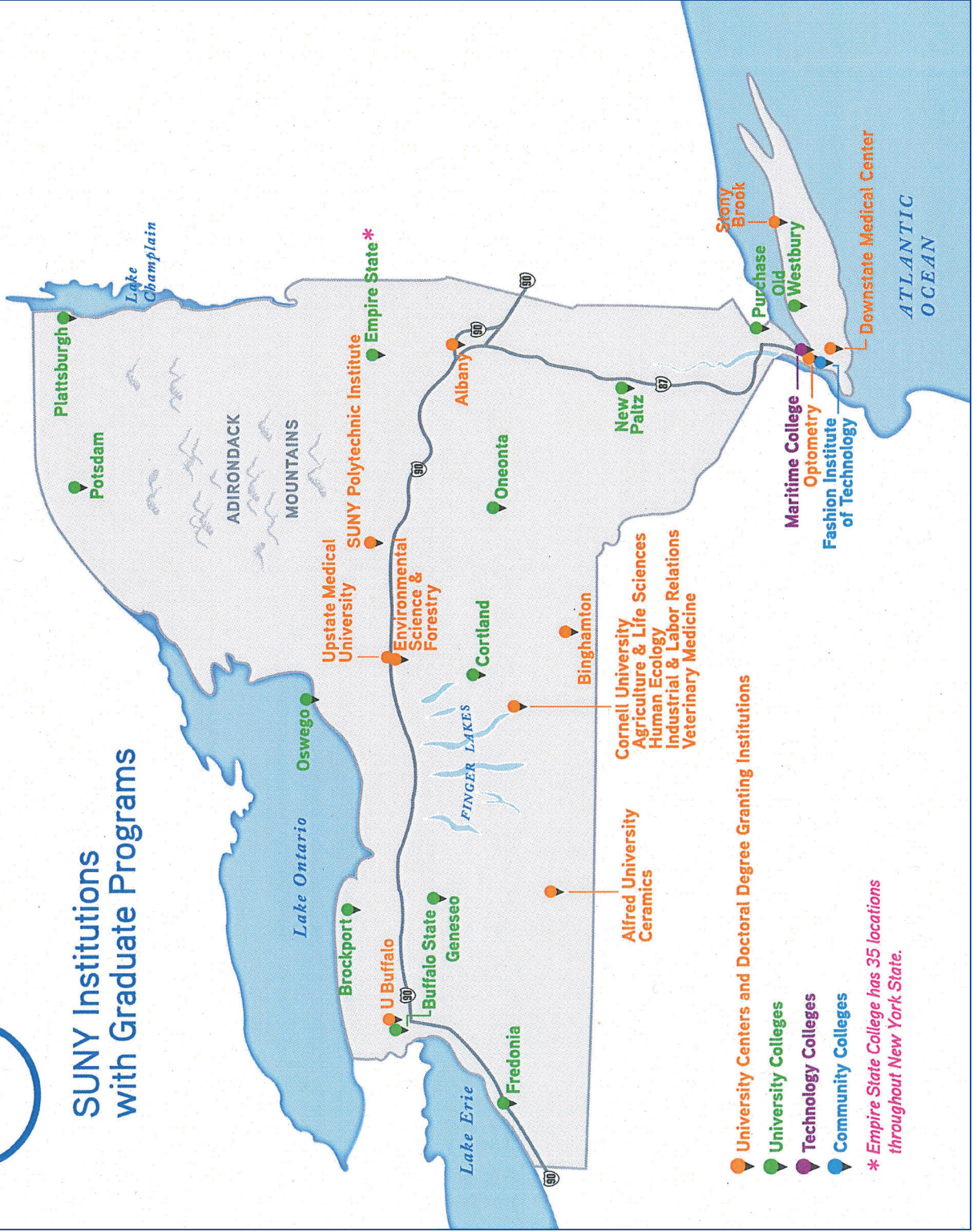


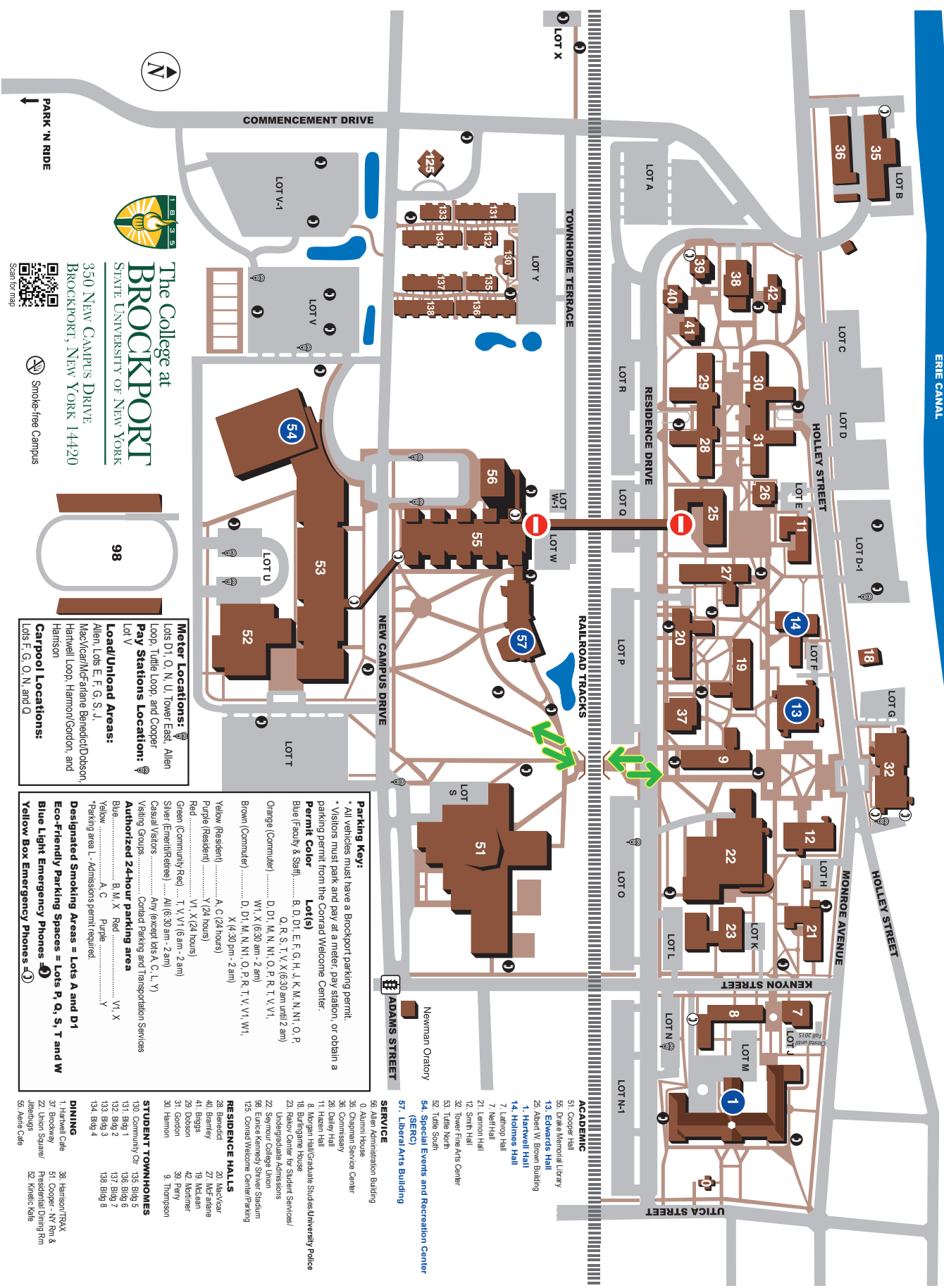
The College at
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STATE UNIVERSITY OF NEW YORK



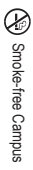
The State University of New York

SUNY Institutions with Graduate Programs





350 New Campus Drive
Brockport, New York 14420



Master Locations:
Lots D1, O, N, U, Tower East, Allen Loop, Tuttle Loop, and Cooper

Pay Stations Location:
Lot V

Load/Unload Areas:
Allen, Lots E, F, G, S, J, Mac/Ven/McFarlane/Benedict/Dobson/Hartwell Loop, Harmon/Gordon, and Harrison

Carpool Locations:
Lots F, G, O, N, and Q

Parking Key:
* All vehicles must have a Brockport parking permit.
* Visitors must park and pay at a meter, pay station, or obtain a parking permit from the Conrad Welcome Center.

Permit Color Lot(s)
Blue (Faculty & Staff) B, D, DI, E, F, G, H, J, K, M, N, NI, O, P, O, R, S, T, V, X (6:30 am-2 am)
Orange (Commuter) D, DI, M, N, NI, O, P, R, T, V, V1, V1, V1
Brown (Commuter) D, DI, M, N, NI, O, P, R, T, V, V1, V1, X (4:30 pm - 2 am)
Yellow (Resident) A, C (24 hours)
Purple (Resident) Y (24 hours)
Red V1, X (24 hours)
Green (Community Res) T, V, V1 (6 am - 2 am)
Silver (Faculty/Staff) All (6:30 am - 2 am)
Casual Visitors All (except lots A, C, L, V)
Visiting Groups Contact Parking and Transportation Services

Authorized 24-hour parking area
Blue A, C
Purple Y
Yellow B, M, X
Red V1, X

*Parking area L - Admissions permit required.

Designated Smoking Areas = Lots A and D1

Eco-Friendly Parking Spaces = Lots P, Q, S, T and W

Blue Light Emergency Phones (1)

Yellow Box Emergency Phones (1)

- ACADEMIC**
- 51. Cooper Hall
 - 55. Drake Memorial Library
 - 13. Edwards Hall
 - 25. Albert W. Brown Building
 - 1. Hartwell Hall
 - 14. Holmes Hall
 - 7. Nellrop Hall
 - 7. Nellrop Hall
 - 21. Lennon Hall
 - 12. Smith Hall
 - 32. Tower Fine Arts Center
 - 53. Tuttle North
 - 52. Tuttle South
 - 54. Special Events and Recreation Center (SERC)
 - 57. Liberal Arts Building
- SERVICE**
- 56. Allen Administration Building
 - 0. Alumni House
 - 35. Chapmen Services Center
 - 36. Commissary
 - 26. Daley Hall
 - 11. Heaton Hall
 - 11. Heaton Hall
 - 8. Morgan Hall/Gardner Students/University Police
 - 18. Burlington House
 - 23. Ravoy Center for Student Services/Undergraduate Admissions
 - 22. Severn College Union
 - 31. Enchanted Kermis/Steve Stadium
 - 123. Conrad Welcome Center/Parking
- RESIDENCE HALLS**
- 20. Benedict
 - 40. Bentley
 - 47. McFarlane
 - 19. McLean
 - 29. Dodson
 - 31. Pary
 - 30. Harmon
 - 9. Thompson
- STUDENT TOWNHOMES**
- 130. Community Ct. 135. Bldg 5
 - 131. Bldg 1
 - 132. Bldg 2
 - 133. Bldg 3
 - 134. Bldg 4
 - 138. Bldg 8
- DINING**
- 1. Harvest Cafe
 - 36. Harrison/TKX
 - 37. Brockway
 - 51. Cooper - NY Pan & Presidential Dining Rm
 - 22. Union Square/Jitters
 - 52. Kinetic Kafe
 - 55. Aerie Cafe